

SPECIFICATION CONTROL DRAWING

- PURCHASE MATERIAL: 17-4 PH / TYPE 630 / S17400 SS BAR OR PLATE  
GRAIN MUST BE ALONG LENGTH OF BAR OR PLATE
- SPECIFICATION: AMS 5604 OR AMS 5643 OR ASTM A564 OR ASTM A693
- HEAT TREATMENT: CONDITION A: AS SUPPLIED / NO HEAT TREATMENT  
CONDITIONS H900 TO H1150 PER AMS 2759/3 OR ASTM A564 OR ASTM A693
- PART NUMBER: M17-4-| HHHHH|B| T.TTT|X| WW.WWW| WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)  
COND THICK TTT SPECIFIES THE THICKNESS IN INCHES  
WW.WWW SPECIFIES THE WIDTH IN INCHES

MATERIAL CONDITION TABLE:

CODE	CONDITION	HARDNESS (HRC)	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	H1025	34-47	100	150
H900	H900	40-47	170	190
H925	H925	38-45	155	170
H1025	H1025	34-42	145	155
H1075	H1075	31-38	125	145
H1100	H1100	30-37	115	140
H1150	H1150	28-37	105	135
CONDA	CONDITION A (SOLUTION TREATED)	38 MAX	-	-

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

FOR DWGS THAT CALL FOR "UTS = 150 KSI, MIN YTS = 100 KSI" (IE. CODE "OMITTED" IN TABLE), HEAT TREAT TO H1025 CONDITION. H900 OR H925 CONDITION MATERIAL MAY BE SUBSTITUTED.

EXAMPLES:

PART	PART NUMBER
0.250" X 4.000" BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI	M17-4-B0.250X4.000
1.000" X 2.500" BAR H900 CONDITION	M17-4-H900-B1.000X2.500
0.500" X 3.250" BAR H1025 CONDITION	M17-4-H1025-B0.500X3.250
0.750" X 2.500" BAR A CONDITION	M17-4-CONDA-B0.750X2.500

RELEASED

2021 DEC 10  
HB ECR 353

APPROVED

△	C	ADD HEAT TREAT SPEC (AMS2759/3), ADD HARDNESS, ADD CONDITIONS FOR "OMITTED" P/N SUFFIX, ADD UNITS FOR THICK/WIDTH (ECR 352)	CP	21.12.03
	B	ADD MATERIAL CONDITION AND REFORMAT DRAWING (CIR17-107)	NO	17.09.14
	A	NEW ISSUE	DS	02.04.18
	REV.	DESCRIPTION	BY	DATE
	DESIGN	NO	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
	DRAWN	CP		
	CHECKED	SAD	DRAWING NO.	REV. C
	MFG. APPR.	SH	M17-4-B	SHEET 1 OF 1
	APPROVED	CP	TITLE	SCALE
	DE APPR.	CP	17-4 SS BAR OR PLATE	NTS
	DATE	21.12.03	COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	